What is claimed is:

1. A storage medium for storing a compiler for compiling a source program, said compiler comprising the steps of:

detecting a parallelization directive in said source program; and

if said parallelization directive is detected, generating a front-end intermediate language for said parallelization directive by positioning on a storage region, each processing code of at least part of the parallelization directive with a hierarchical structure in accordance with an internal structure of said parallelization directive.

- 2. The storage medium according to claim 1, further comprising a step of adding to said front-end intermediate language of a statement to which the parallelization directive is applied, reference information from said front-end intermediate language of said statement to which the parallelization directive is applied, to said front-end intermediate language for the parallelization directive.
- 3. The storage medium according to claim 1, further comprising a step of, by using a processing table which stores one or a plurality of items of processing information for each of said processing codes, acquiring the processing information corresponding to a current processing content based on said processing code within the front-end intermediate language for said parallelization directive.
- 4. The storage medium according to claim 3, wherein said current processing content is one of type analysis, syntactic analysis, semantic analysis, and generation of a compiler intermediate language.
- 5. The storage medium according to claim 1, wherein said hierarchical structure is a list structure.
- 6. The storing medium according to claim 1, wherein said part of said parallelization directive comprises a directive, a clause, and a line, and

a processing code for said directive is linked downward to a processing code for said clause, and

said processing code for said clause is linked downward to a processing code for said lines.

7. A compiling method for compiling a source program, said compiling method comprising the steps of:

detecting a parallelization directive in said source program; and

if said parallelization directive is detected, generating a front-end intermediate language for said parallelization directive by positioning on a storage region, each processing code of at least part of the parallelization directive with a hierarchical structure in accordance with an internal structure of said parallelization directive.

- 8. The compiling method according to claim 7, further comprising a step of adding to said front-end intermediate language of a statement to which the parallelization directive is applied, reference information from said front-end intermediate language of said statement to which the parallelization directive is applied, to said front-end intermediate language for the parallelization directive.
- 9. The compiling method according to claim 7, further comprising a step of, by using a processing table which stores one or a plurality of items of processing information for each of said processing codes, acquiring the processing information corresponding to a current processing content based on said processing code within the front-end intermediate language for said parallelization directive.
- 10. The compiling method according to claim 9, wherein said current processing content is one of type analysis, syntactic analysis, semantic analysis, and generation of a compiler intermediate language.
- 11. The compiling method according to claim 7, wherein said hierarchical structure is a list structure.

12. The compiling method according to claim 7, wherein

said part of said parallelization directive comprises a directive, a clause, and a line, and

a processing code for said directive is linked downward to a processing code for said clause, and

said processing code for said clause is linked downward to a processing code for said lines.

13. A compiling apparatus for compiling a source program, comprising: means for detecting a parallelization directive in said source program; and

means for generating a front-end intermediate language for said parallelization directive by positioning on a storage region, each processing code of at least part of the parallelization directive with a hierarchical structure in accordance with an internal structure of said parallelization directive if said parallelization directive is detected.

- 14. The compiling apparatus according to claim 13, further comprising means for adding to said front-end intermediate language of a statement to which the parallelization directive is applied, reference information from said front-end intermediate language of a statement to which the parallelization directive is applied, to said front-end intermediate language for the parallelization directive.
- 15. The compiling apparatus according to claim 13, further comprising means for, by using a processing table which stores one or a plurality of items of processing information for each of said processing codes, acquiring the processing information corresponding to a current processing content based on said processing code within the front-end intermediate language for said parallelization directive.
- 16. The compiling apparatus according to claim 15, wherein said current processing content is one of type analysis, syntactic analysis, semantic analysis, and generation of a compiler intermediate language.

- 17. The compiling apparatus according to claim 13, wherein said hierarchical structure is a list structure.
- 18. The compiling apparatus according to claim 13, wherein said part of said parallelization directive comprises a directive, a clause, and a line, and

a processing code for said directive is linked downward to a processing code for said clause, and said processing code for said clause is linked downward to a processing code for said lines.